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=> d que sta l16
L16           22 SEA FILE=REGISTRY ABB=ON  PLU=ON  (MEISNDSLDLFSSFFPQLSPPADPETPL
                 LPSFSAPPKHLSLSSLRYKTELCSRYAESGFCAYRNRCQFAHGLSELRPPVQHPKYKTELCRS
                 FHVLGTCNYGLRCLFIHSPQERREPPVLPDNLSLPPRRYGGPYRERCRLWSAPGGCPYGARCH
                 FQHPKSARETCRHFAALGDCPYGACCHFSHSPPLDRWGSGTKNSSGSLSPSDPDSDPDTPVLS
                 ESPANNAFSFSSLLLPLALRLQILGDDDLPTASDPLPGDDTDLLPGDEEIAQGLLSVLG)|(M
                 DLTAIYESLLSLSPDVPVPSDHGGTESSPGWGSSGPWSLSPSDSSPSGVTSRLPGRSTSLVEG
                 RSCGWVPPPPGFAPLAPRLGPELSPSPTSPTATSTTPSRYKTELCRTFSESGRCRYGAKCQFA
                 HGLGELRQANRHPKYKTELCHKFYLQGRCPYGSRCHFIHNPSEDLAAPGHPPVLRQSISFSGL
                 PSGRRTSPPPPGLAGPSLSSSSFSPSSSPPPPGDLPLSPSAFSAAPGTPLARRDPTPVCCPSC
                 RRATPISVWGPLGGLVRTPSVQSLGSD)(PDEYASSGSSLGGSDSPVFEAGVFAPPQPVAAPR
                 RLPIFNRISVSE)/SQSP


=> d que sta l32
L31           77 SEA FILE=REGISTRY ABB=ON  PLU=ON  ((((TUMOUR OR TUMOR)
                 (1W)NECRO? (1W)FACTOR# OR TNF)(1W)ALPHA OR TNFA) (L)(RNA
                 OR MRNA))/CNS
L32           77 SEA FILE=REGISTRY ABB=ON  PLU=ON  AU/SQSN AND L31


=> b hcap
FILE 'HCAPLUS' ENTERED AT 14:06:42 ON 15 MAR 2006
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FILE COVERS 1907 - 15 Mar 2006 VOL 144 ISS 12
FILE LAST UPDATED: 14 Mar 2006 (20060314/ED)

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d bib abs hitind hitstr l38 tot

L38 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:673041 HCAPLUS
DN 143:147736
TI Methods of using databases to create gene-expression microarrays, equine and canine microarrays created thereby, and uses of the microarrays
IN Bertone, Alicia; Gu, Weisong
PA The Ohio State University, USA
SO PCT Int. Appl., 1475 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2005067649	A2	20050728	2005WO-US00517	20050107
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	WO2005067649	A2	20050728	2005WO-XA00517	20050107
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	2004US-535111P	P	20040108		
	2005WO-US00517	A	20050107		

AB Methods of preparing biol. databases, and databases prepared according to those methods. The methods can be performed entirely using computer resources, relying solely on publicly available biol. sequence information, and can be used to generate species-specific nucleic acid microarrays. The approach involves two major steps: identification of the 3' coding domains (CDSs) and 3' expressed sequence tags (ESTs) in public domain sequence

databases and subsequent annotation of the sequences. For the algorithm using 20,022 equine sequences in GenBank (June, 2003), the 3' equine CDSs are identified by selecting the full and partial CDSs that have a stop codon at the 3' end. This approach ensures that sequences selected are anchored to the 3' end; most contain the 3' untranslated region (UTR), which is more species-specific, compared with the coding region. Use of the UTR sequence in probe design is an asset for improvement of microarray accuracy. An algorithm analyzes the partial equine CDSs and ESTs with those in a human-mouse CDS database (a subset of the GenBank nonredundant database) in order to provide annotation to the selected 3' equine sequences. A total of 3099 equine 3' coding sequences and 3' ESTs are selected for the equine-specific gene expression array, and 68,266 oligonucleotide probes designed according to Affymetrix's chip design guide. Microarray anal. identified genes expressed in equine synoviocytes in the absence and presence of lipopolysaccharide, as well as differentially expressed genes in developmental orthopedic disease (osteochondrosis dessicans and cervical vertebral malformation), equine osteoarthritis, equine protozoal myelitis, herpes virus-1 infection, potentially compromising stress, and laminitis in horses. Analogous methods are used to generate a canine-specific microarray to detect gene expression during osteoarthritis in dogs. [This abstract record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IC ICM C12N

CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 13, 14

IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(α- TTP (α-tocopherol-transfer protein), gene used in microarray; methods of using databases to create gene-expression microarrays, equine and canine microarrays created thereby, and uses of the microarrays)

IT 134911-17-4 134911-21-0 134911-23-2 134911-26-5 136217-80-6, DNA (Canis familiaris clone D41/D44 glycoprotein GP 2 cDNA) 139793-18-3, DNA (Canis familiaris clone RDC7 cDNA) 139793-23-0, GenBank M35521 139793-24-1 139844-55-6, DNA (horse transferrin cDNA plus flanks) 139846-49-4 139847-57-7 139898-19-4 139898-21-8 140012-92-6, GenBank X05297 140012-96-0 140012-97-1, GenBank M33826 140012-98-2 140012-99-3, DNA (Canis familiaris clone RDC4 cDNA) 140013-00-9 140013-01-0, DNA (Canis familiaris clone RDC8 cDNA) 140013-04-3, GenBank M32283 140013-05-4, GenBank Y00399 140013-06-5, GenBank M35302 140013-18-9, GenBank M14546 140013-19-0, DNA (Equus caballus zeta globin gene) 140061-99-0 140066-19-9, GenBank M14544 140076-21-7 140076-22-8 140083-38-1 140095-76-7 140098-92-6 140261-32-1, DNA (Canis familiaris precursor cDNA) 140261-34-3, GenBank M17177 140261-35-4, GenBank M17178 140261-41-2, GenBank M29611 140261-47-8, GenBank M35520 140261-48-9, GenBank M35522 140261-52-5, GenBank J04067 140261-53-6 140261-54-7, GenBank J05069 140261-63-8 140261-64-9, GenBank M14545 140321-56-8 140330-41-2 140330-43-4 140331-04-0 140331-05-1 140333-10-4 140335-50-8, DNA (Canis familiaris calcitonin cDNA) 140338-42-7 140497-03-6, DNA (Canis familiaris LH precursor cDNA) 140497-06-9, GenBank M35301 140497-08-1 140540-10-9, DNA (Equus caballus gene CG cDNA) 140729-04-0, GenBank M29957 140729-34-6, DNA (Equus caballus alpha 2 globin gene) 141009-94-1 141162-34-7 141165-97-1, DNA (Canis familiaris gene ICln cDNA) 141372-18-1 142101-76-6 142318-38-5 142455-67-2 142480-77-1, DNA (Equus caballus gene FLAP cDNA) 142830-20-4 142883-14-5 143002-99-7 143525-11-5, DNA (Equus caballus gene lipase cDNA) 144507-51-7 144507-52-8 144893-66-3, DNA (Canis familiaris gene K-ras cDNA) 144915-61-7 145408-43-1 146169-94-0 146494-33-9, GenBank L01473 147457-85-0 147904-27-6 148211-93-2 148281-51-0 148427-45-6 148543-29-7 149346-66-7 149448-13-5 149448-14-6 149766-73-4 149766-75-6 149766-78-9 149766-79-0 149767-79-3 149974-81-2 150121-66-7 150201-34-6 150419-58-2 150532-69-7 150532-70-0 151116-49-3, DNA (Canis familiaris E-selectin cDNA) 151241-71-3 151246-66-1

151494-43-8 151551-41-6 151579-69-0 151631-74-2 152282-45-6
152371-39-6 152394-12-2 152394-13-3 153637-50-4 153771-18-7
153792-44-0 153792-45-1 153794-66-2, GenBank L29489 153794-67-3,
GenBank L29490 154167-97-2 154448-78-9 154980-06-0 154982-96-4
155461-23-7 155484-89-2 156709-68-1 157112-26-0 157152-63-1
157344-13-3 157883-49-3 158024-87-4 158024-88-5 158085-35-9
158158-33-9 158160-85-1 158449-39-9 158644-08-7 158762-41-5
158995-05-2 159317-15-4 160043-38-9 160610-51-5 160897-61-0
160966-61-0 **161309-36-0** 161781-54-0 162076-76-8
162114-30-9 162159-77-5 162197-61-7 162487-84-5 164249-75-6
164687-11-0 164687-63-2, DNA (Canis familiaris gene GMP140 cDNA)
164687-70-1 164687-72-3 165411-95-0 165474-06-6 165757-59-5
165906-50-3 165906-81-0 165998-05-0 166229-81-8 166840-99-9
166841-19-6 167329-00-2 168579-61-1 168854-84-0 169071-41-4
170176-34-8 170176-79-1 170205-82-0, DNA (Equus caballus gene IL-10
cDNA) 170206-30-1 170247-47-9 170336-72-8 170404-26-9
170549-82-3 170829-96-6 170896-08-9, DNA (Canis familiaris gene RDS
cDNA) 171710-89-7 171840-05-4 171958-03-5 172135-40-9
172176-79-3 172776-50-0 173295-39-1, DNA (Canis familiaris caveolin-1
cDNA) 173892-25-6 174386-92-6 174386-93-7 174387-85-0
174387-87-2 174450-25-0 175033-59-7 175107-82-1 175114-53-1
175384-44-8, DNA (Equus caballus gene TSH-beta cDNA) 175484-65-8
175641-31-3 175824-10-9 176454-80-1 176458-04-1 176458-06-3
176458-59-6, DNA (horse protein MxA cDNA plus flanks) 176947-53-8
177307-96-9 177526-87-3, DNA (Canis familiaris SRP14 cDNA) 178085-88-6
178094-21-8 178147-77-8 178298-26-5, DNA (horse beta-lactoglobulin I
cDNA) 178298-99-2 178300-32-8 178300-38-4 178356-39-3, DNA (horse
beta-lactoglobulin II cDNA) 178836-58-3 179708-49-7, DNA (Equus
caballus clone I7 cDNA) 179789-79-8 179789-80-1 179956-58-2
180563-10-4 181109-73-9 181727-57-1 182456-78-6 182521-47-7
183575-13-5 184513-16-4 184659-86-7 184859-12-9 185082-18-2
185082-19-3 185082-20-6 185236-09-3 185239-95-6 185979-49-1
187132-36-1 187132-37-2 188222-48-2, DNA (Canis familiaris biglycan
cDNA) 188222-49-3, DNA (Canis familiaris decorin cDNA) 188333-61-1
190046-24-3 190211-31-5
RL: BUU (Biological use, unclassified); DGN (Diagnostic use); PRP
(Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; methods of using databases to create
gene-expression microarrays, equine and canine microarrays created
thereby, and uses of the microarrays)

IT **161309-36-0**
RL: BUU (Biological use, unclassified); DGN (Diagnostic use); PRP
(Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; methods of using databases to create
gene-expression microarrays, equine and canine microarrays created
thereby, and uses of the microarrays)

RN 161309-36-0 HCAPLUS
CN DNA (Canis familiaris clone pDog-TNF-α tumor necrosis factor α
cDNA plus flanks) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L38 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
AN **2001:137044** HCAPLUS
DN 134:189743
TI Binding of **tristetraprolin** (**TTP**)-related CCCH zinc
finger proteins to AU-rich elements of mRNA and uses thereof in treatment
of granulocytopenia by regulating GM-CSF mRNA stability
IN **Blackshear, Perry J.**; **Lai, Wi S.**; Carballo-Jane, Ester
PA United States Dept. of **Health** and **Human**
Services, USA
SO PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2001012213	A2	20010222	2000WO-US22199	20000814 <--
	WO2001012213	A3	20010607		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

	AU2000066388	A5	20010313	2000AU-0066388	20000814 <--
PRAI	1999US-148810P	P	19990813 <--		
	2000WO-US22199	W	20000814 <--		

AB The invention provides methods based upon the discovery that **tristetraprolin** (**TTP**) and **TTP**-related proteins stimulate the destruction of certain mRNAs by binding to an AU-rich element (ARE) within the 3' untranslated region of such mRNAs, and that the zinc finger domain of **TTP** and **TTP**-related proteins is sufficient to mediate this destruction. The present invention provides methods of regulating the destruction of mRNA mols. containing an AU-rich element (ARE) by **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins, for example, methods of stimulating the degradation of an mRNA mol. encoding TNF-α, and methods of inhibiting the degradation of an mRNA mol. encoding GM-CSF. Also provided are methods for identifying compds. that regulate the destruction of mRNA mols. containing AREs. The invention also features a method of treating granulocytopenia by administering **TTP**-related zinc finger proteins for inhibiting the degradation of GM-CSF mRNA.

IC ICM A61K-0038/17
ICS A61K-0048/00; C12N-0015/12; C07K-0014/47; A61P-0007/00

CC 6-3 (General Biochemistry)
Section cross-reference(s): 1, 3, 13

ST CCCH zinc finger protein mRNA interaction; **tristetraprolin** mRNA AU element interaction; tumor necrosis factor mRNA destabilization **tristetraprolin** related protein; Colonystimulating factor 2 tandem zinc finger protein granulocytopenia therapy; mRNA stability regulation **tristetraprolin** related CCCH zinc finger protein

IT Genetic element
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(ARE (AU-rich element), class II; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C124R, mutant **TTP**; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C147R, mutant **TTP**; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(CCCH zinc finger-containing; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of

mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ERF1; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ERF2; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Tumor necrosis factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TNFα mRNA destabilization; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Gene, animal
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**TTP**; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(XC3H-4, TZF-containing protein; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Drug screening
Molecular cloning
(binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Drugs
(comprising **TTP** or **TTP**-related proteins or agents regulating **TTP** activity; treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Cytoplasm
(cytosol, mRNA in; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Genetic vectors
(for expressing **TTP** or **TTP**-related protein; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Molecular association
(mRNA binding; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Enzymes, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(mRNA degradative; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Cell
(mRNA in; binding of **tristetraprolin** (**TTP**)-related

CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Interleukin 3
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(mRNA stability; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Mutation
(of **TTP** or **TTP**-related proteins, for treating granulocytopenia; treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Agranulocytosis
(relative or absolute, treatment of; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT mRNA
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(stability, degradation; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Repeat motifs (protein)
(tandem zinc finger (TZF); binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(**tris-tetraprolins**, interaction with mRNA; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Protein motifs
(zinc finger; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT 83869-56-1, GM-CSF
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(mRNA stability regulated by **TTP**; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT **326947-75-5 326947-76-6 326947-77-7**
326947-78-8 326947-85-7 326947-86-8
RL: PRP (Properties)
(unclaimed nucleotide sequence; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT **139691-22-8**, **Tris-tetraprolin** (human gene ZFP36 reduced) 161706-34-9, Protein ERF-2 (human gene ERF-2)
229160-23-0 **326947-63-1** **326947-64-2** **326947-65-3**
326947-66-4 **327026-01-7** **327026-04-0** **327026-07-3** **327026-08-4**
327026-13-1 **327026-18-6** **327026-25-5** **327026-27-7** **327026-57-3**
327026-66-4 **327026-77-7** **327026-80-2**
RL: PRP (Properties)
(unclaimed protein sequence; binding of **tristetraprolin** (**TTP**)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating

GM-CSF mRNA stability)
IT 157079-69-1 165588-58-9 326947-79-9
326947-80-2 326947-81-3 326947-82-4
326947-83-5 326947-84-6
RL: PRP (Properties)
(unclaimed sequence; binding of **tristetraprolin** (**TTP**
)-related CCCH zinc finger proteins to AU-rich elements of mRNA and
uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA
stability)
IT 326947-75-5 326947-76-6 326947-77-7
326947-78-8 326947-85-7 326947-86-8
RL: PRP (Properties)
(unclaimed nucleotide sequence; binding of **tristetraprolin** (
TTP)-related CCCH zinc finger proteins to AU-rich elements of
mRNA and uses thereof in treatment of granulocytopenia by regulating
GM-CSF mRNA stability)
RN 326947-75-5 HCAPLUS
CN DNA, d(G-T-C-G-A-C-A-C-T-C-A-G-A-G-A-G-A-A-A-G-G-C-T-A-A-G-G) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 326947-76-6 HCAPLUS
CN DNA, d(C-A-T-T-C-A-A-A-G-G-G-G-A-T-A-T-C-A-G-T-C-A-G) (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 326947-77-7 HCAPLUS
CN DNA, d(G-T-G-G-C-T-T-C-T-A-G-A-T-G-C-A-T-G-G-G-T-G-G-C-A-T-C) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 326947-78-8 HCAPLUS
CN DNA, d(G-A-A-G-G-A-C-A-C-C-T-C-T-A-G-A-G-A-C-A-A-A-A-T-G-A-T-G-C) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 326947-85-7 HCAPLUS
CN 48: PN: WO0112213 SEQID: 24 unclaimed DNA (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 326947-86-8 HCAPLUS
CN 49: PN: WO0112213 SEQID: 25 unclaimed RNA (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 139691-22-8, **Tris-tetraprolin** (human gene
ZFP36 reduced) 229160-23-0
RL: PRP (Properties)
(unclaimed protein sequence; binding of **tristetraprolin** (
TTP)-related CCCH zinc finger proteins to AU-rich elements of
mRNA and uses thereof in treatment of granulocytopenia by regulating
GM-CSF mRNA stability)
RN 139691-22-8 HCAPLUS
CN Tris-tetraprolin (human gene ZFP36 reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 229160-23-0 HCAPLUS
CN CCCH zinc finger protein C3H-4 (Xenopus laevis gene C3H-4) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 157079-69-1 165588-58-9 326947-79-9
326947-80-2 326947-81-3 326947-82-4
326947-83-5 326947-84-6
RL: PRP (Properties)
(unclaimed sequence; binding of **tristetraprolin** (**TTP**
)-related CCCH zinc finger proteins to AU-rich elements of mRNA and

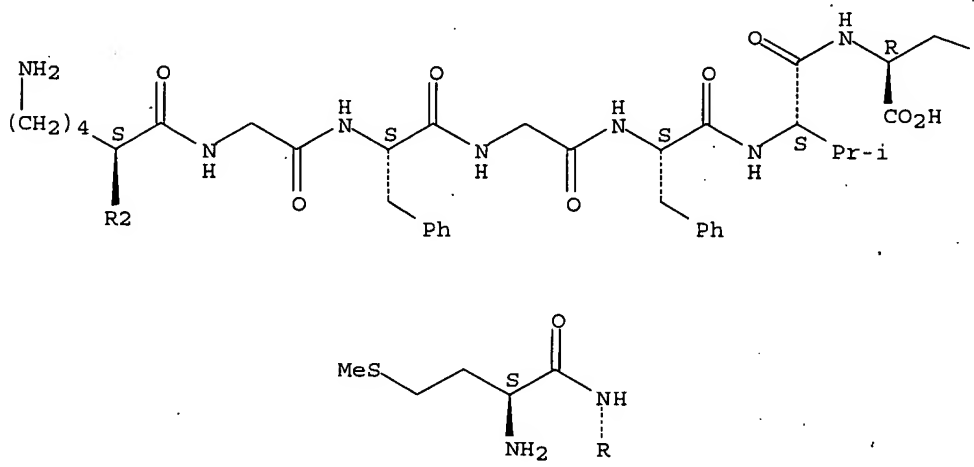
uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

RN 157079-69-1 HCAPLUS

CN L-Cysteine, L-methionyl-L-arginyl-L-threonyl-L-α-glutamyl-L-asparaginylglycyl-L-lysyl-L-seryl-L-lysylglycyl-L-phenylalanylglycyl-L-phenylalanyl-L-valyl- (9CI) (CA INDEX NAME)

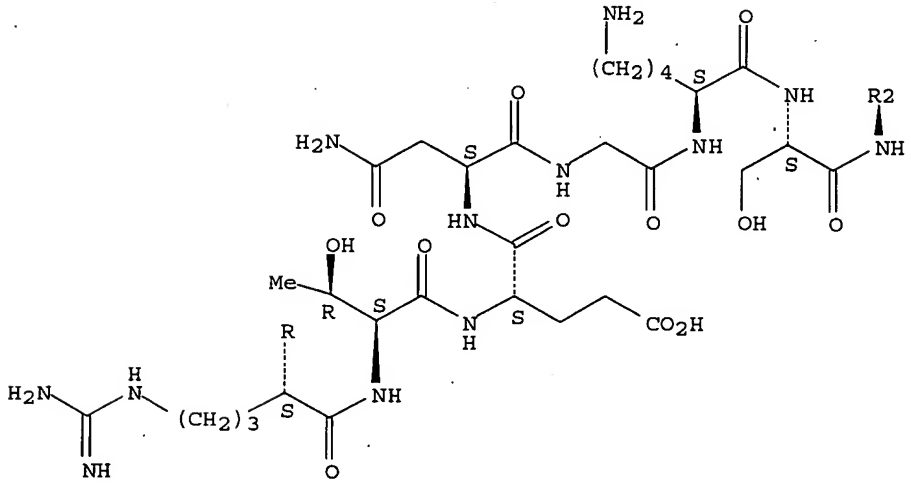
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

PAGE 2-A



RN 165588-58-9 HCAPLUS

CN RNA, (U-U-A-U-U-U-A-U-U) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

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RN   326947-79-9  HCAPLUS
CN   DNA, d(C-T-T-T-C-C-G-A-A-T-T-C-A-C-T-G-G-A-G-C-C-T-C) (9CI)  (CA INDEX
     NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN   326947-80-2  HCAPLUS
CN   DNA, d(T-A-G-A-T-C-T-A-G-A-A-G-C-G-A-T-C-T-T-T-A-T-T-T-C-T-C-T-C) (9CI)
     (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN   326947-81-3  HCAPLUS
CN   DNA, d(G-A-T-A-A-G-A-T-C-T-C-A-G-G-C-C-T-T-C-C) (9CI)  (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN   326947-82-4  HCAPLUS
CN   DNA, d(G-C-C-T-T-C-T-A-G-A-T-A-A-A-T-A-C-A-T-T-C-A-T-A-A-G-C) (9CI)  (CA
     INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN   326947-83-5  HCAPLUS
CN   DNA, d(C-T-G-A-T-C-T-A-G-A-A-G-T-G-C-A-A-A-T-A-T-A-A-A-T-A-G-A-G-G) (9CI)
     (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN   326947-84-6  HCAPLUS
CN   DNA, d(G-A-C-T-G-G-A-T-C-C-T-C-T-A-T-T-T-A-T-A-T-T-T-G-C-A-C) (9CI)  (CA
     INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***


=> d his

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L1             2 (US2002-049486 OR WO2000-US22199 OR US1999-148810#)/AP,PRN
                 SEL AN 2
L2             1 E1-2 AND L1
                 E BLACKSHEAR P/AU
L3           195 E3-4,E10-13
                 E LAI W/AU
L4            90 E3,E19
                 E LAI WI/AU
L5            39 E4
                 E CARBALLO E/AU
L6            60 E3,E5-6
                 E CABALLO JANE E/AU
                 E JANE E/AU
L7            15 E3-5
L8          4222 (HHS OR HEALTH (L)HUMAN (L)SERV?)/CS,PA

     FILE 'REGISTRY' ENTERED AT 13:32:46 ON 15 MAR 2006

     FILE 'HCAPLUS' ENTERED AT 13:32:50 ON 15 MAR 2006
L9                TRA L2 1- RN :       34 TERMS

     FILE 'REGISTRY' ENTERED AT 13:32:50 ON 15 MAR 2006
L10           34 SEA L9
L11           20 L10 AND PROTEIN/FS
                 SEL RN 17 20
L12            2 E1-2 AND L11
L13              QUE MEISNDSLDLFSSFFPQLSPPADPETPLLPSFSAPPKHLSLSSLRYKTELCSRYAESGF
L14              QUE MDLTAIYESLLSLSPDVPVPSDHGGTESSPGWGSSGPWSLSPSDSSPSGVTSRLPGRST
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L16           22 L13|L14&L15/SQSP
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L19          2855 L17-18

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L21            18 L11 NOT L12

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L22            41 TRIS (1W)TETRAPROLIN#

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L23            13 L10 AND SQL/FA AND NUCLEIC/FS

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L25             1 157079-69-1

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L26             5 L23,L25
L27             1 L26 AND L19,L22

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L28             0 L27

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L29             0 L27

     FILE 'BIOSIS' ENTERED AT 13:59:13 ON 15 MAR 2006
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L35             2 L27,L34
L36             1 L35 AND L1-8
L37             1 L35 NOT L36
L38             2 L35-37

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L41             0 L34

     FILE 'REGISTRY' ENTERED AT 14:05:21 ON 15 MAR 2006
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